

Brodnick et al.

S/N: 09/661,064

In the Claims

1. (Currently Amended) An apparatus comprising:
 a 12-lead wire assembly, each lead wire having a transducer capable of receiving an ECG signal from a patient; and
 a portable ECG device including:
 a portable, on-demand ECG monitor adapted to be connected to the 12-lead wire assembly, the ECG monitor having a processor to process the ECG signals from the 12- lead wire assembly and produce standard 12-lead ECG data representative of cardiac condition of the patient; and
a wireless communication interface coupled integrated with the ECG monitor to receive patient ECG data from the ECG monitor and capable of transmitting patient ECG data and video to a remote health care provider.
2. (Previously Amended) The apparatus of claim 1 wherein the wireless communication interface is a wireless phone capable of allowing audio and ECG data transmission concurrently.
3. (Previously Amended) The apparatus of claim 1 wherein the wireless communication interface is an interactive Internet TV appliance capable of allowing voice, video and ECG data transmission concurrently.
4. (Previously Amended) The apparatus of claim 1 wherein the processor is programmed to:
 prompt the patient if assistance is needed to acquire an ECG, and if so, open a data transmission link to the health care provider;
 otherwise, receive and process the ECG signals, then open a data transmission link and transmit the ECG data to the health care provider.
5. (Previously Amended) The apparatus of claim 4 wherein the processor is further programmed to:
 allow selection of a desired transmission mode; and
 allow concurrent transmission of ECG data in addition to at least audio communication data.

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6. (Previously Amended) The apparatus of claim 5 wherein the processor is further programmed to include bi-directional video and audio transmission with the transmission of ECG data.

7. (Previously Amended) The apparatus of claim 1 further comprising:
an interactive Internet appliance that is connectable to a video and audio monitor to receive ECG data from the wireless communication interface and to transmit the ECG data to the health care provider;

a video camera and a microphone connected to the interactive Internet appliance to transmit video and audio data from the patient to the health care provider.

8. (Previously Amended) The apparatus of claim 7 wherein the ECG data and the audio and video data are transmitted to the health care provider through an interconnected global computer system.

9. (Previously Amended) The apparatus of claim 7 wherein the ECG data and the audio and video data are transmitted to the health care provider at least partially through an electromagnetic transmission wave.

10. (Previously Amended) The apparatus of claim 7 wherein the wireless communication interface includes an infrared transmitter and an infrared receiver to communicate with the interactive Internet appliance, and wherein the processor is further programmed to cause the infrared receiver to receive data instructions from the health care provider through the interactive Internet appliance.

11. (Previously Amended) The apparatus of claim 1 further comprising an information management system and wherein the ECG monitor includes a data link port connectable to the information management system to maintain ECG monitoring during patient transport to a health care facility.

12. (Previously Amended) The apparatus of claim 11 wherein the information management system includes a portable computer with data storage that is downloadable at the health care facility.

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13. (Previously Amended) The apparatus of claim 11 wherein the information management system can broadcast ECG data to the health care facility as the patient is in transit.

14. (Previously Amended) The apparatus of claim 1 further comprising a GPS system connected to the wireless communication interface.

15. (Previously Amended) The apparatus of claim 14 wherein the processor is programmed to receive a signal from the health care provider to enable the GPS system.

16. (New) An apparatus comprising:
a 12-lead wire assembly, each lead wire having a transducer capable of receiving an ECG signal from a patient; and
a portable ECG device including:
a portable, on-demand ECG monitor adapted to be connected to the 12-lead wire assembly, the ECG monitor having a processor to process the ECG signals from the 12-lead wire assembly and produce standard 12-lead ECG data representative of cardiac condition of the patient; and
a wireless communication interface coupled to receive patient ECG data from the ECG monitor and capable of concurrently transmitting patient ECG data and voice data to a health care provider in a wireless transmission.